**LGG Progressive−Diagnosis diverging plot for stranded**

HALLMARK_KRAS_SIGNALING_DN
HALLMARK_PANCREAS_BETA_CELLS
HALLMARK_ALLOGRAFT_REJECTION
HALLMARK_SPERMATOGENESIS
HALLMARK_ANGIOGENESIS
HALLMARK_G2M_CHECKPOINT
HALLMARK_APICAL_SURFACE
HALLMARK_ESTROGEN_RESPONSE_EARLY
HALLMARK_INTERFERON_GAMMA_RESPONSE
HALLMARK_INTERFERON_ALPHA_RESPONSE
HALLMARK_APICAL_JUNCTION
HALLMARK_TNFA_SIGNALING_VIA_NFKB
HALLMARK_IL6_JAK_STAT3_SIGNALING
HALLMARK_E2F_TARGETS
HALLMARK_ESTROGEN_RESPONSE_LATE
HALLMARK_MYOGENESIS
HALLMARK_KRAS_SIGNALING_UP
HALLMARK_COAGULATION
HALLMARK_INFLAMMATORY_RESPONSE
HALLMARK_WNT_BETA_CATENIN_SIGNALING
HALLMARK_HEDGEHOG_SIGNALING
HALLMARK_MYC_TARGETS_V2
HALLMARK_COMPLEMENT
HALLMARK_HEME_METABOLISM
HALLMARK_MITOTIC_SPINDLE
HALLMARK_IL2_STAT5_SIGNALING
HALLMARK_UV_RESPONSE_UP
HALLMARK_PI3K_AKT_MTOR_SIGNALING
HALLMARK_HYPOXIA
HALLMARK_XENOBIOTIC_METABOLISM
HALLMARK_UV_RESPONSE_DN
HALLMARK_NOTCH_SIGNALING
HALLMARK_MYC_TARGETS_V1
HALLMARK_TGF_BETA_SIGNALING
HALLMARK_APOPTOSIS
HALLMARK_GLYCOLYSIS
HALLMARK_P53_PATHWAY
HALLMARK_BILE_ACID_METABOLISM
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY
HALLMARK_UNFOLDED_PROTEIN_RESPONSE
HALLMARK_ANDROGEN_RESPONSE
HALLMARK_DNA_REPAIR
HALLMARK_MTORC1_SIGNALING
HALLMARK_FATTY_ACID_METABOLISM
HALLMARK_PEROXISOME
HALLMARK_CHOLESTEROL_HOMEOSTASIS
HALLMARK_ADIPOGENESIS
HALLMARK_PROTEIN_SECRETION
HALLMARK_OXIDATIVE_PHOSPHORYLATION

0.03
0.04
0.01
0.04
0.01
0.01
0.02
03

**y_value**
0.0
−0.1
−0.2
−0.3

−0.4   −0.3   −0.2   −0.1   0.0

**Pathway score**